

**Bachelor of Science – Applied Statistics with Mathematics Secondary Teacher Certification Major
(Four Year Plan)**

YEAR 1

Semester 1		Semester 2	
Course Number	Credit Hours	Course Number	Credit Hours
ENG 1301 (Composition I)[#] P: One of the following: (1) TSI ESSAY score of 4 and WRITING score of 340, (2) TSI ESSAY score of 5 and ABE WRITING diagnostic level 4, (3) TSI WRITING complete, OR (4) TSI WRITING exempt	3	ENG 1302 (Composition II) P: A grade of C or better in ENG 1301 or placement by examination	3
*MATH 2401 (Calculus I)[#] P: C or better in MATH 1404 or MATH 1505 or placement by exam taken at UHD	4	*MATH 2402 (Calculus II) P: A grade of C or better in MATH 2401	4
UHD 1302 (Freshman Seminar - Mathematics) Transfer students see advisor for options	3	*MATH 2305 (Discrete Mathematics)^{&} P: C or better in MATH 1404 or MATH 1505, or both of MATH 1305 and MATH 1306, or placement by exam taken at UH-Downtown	3
Approved Life and Physical Science course (p. 60) P: Refer to catalog	3	Approved Life and Physical Science course (p. 60) P: Refer to catalog	3
POLS 2305 (Federal Government) P: Enrollment in or completion of ENG 1301 or 010 core complete	3	Approved American History course (p. 60) P: Enrollment in or completion of ENG 1301 or 010 core complete	3
Total Semester Hours	16	Total Semester Hours	16

YEAR 2

Semester 3		Semester 4	
Course Number	Credit Hours	Course Number	Credit Hours
*MATH 2307 (Linear Algebra) P: C or better in MATH 2401 or MATH 2305 or MATH 2409	3	ASTA Elective course See catalog for details	3
*MATH 3302 (Probability & Stats.) P: C or better in MATH 2402 or MATH 2422	3	MATH 3303 (Geo. for Teachers) P: C or better in MATH 1301 & junior standing	3
*STAT 3311 (Stat. Analysis for NS) P: C or better in MATH 1404 or MATH 1505 (can be swapped with STAT 3310)	3	READ 3309 (Teaching Reading in the Content Areas)	3
PED 3301 (Introduction to Special Populations)	3	Approved Social and Behavioral Sciences course (p. 60) P: Refer to catalog	3
POLS 2306 (Texas Government) P: Enrollment in or completion of ENG 1301 or 010 core complete	3	Approved Creat. Arts course (p. 60) P: Refer to catalog	3
Total Semester Hours	15	Total Semester Hours	15

Students must apply for admission and be accepted into the Department of Urban Education's Teacher Candidacy Program

YEAR 3

Semester 5		Semester 6	
Course Number	Credit Hours	Course Number	Credit Hours
ASTA Elective course See catalog for details	3	ASTA Elective course See catalog for details	3
STAT 4397 (Statistical Computing) P: B or higher in STAT 3309 or MATH 3302 or departmental approval (can be swapped with STAT 4318)	3	MATH 3313 (Mathematics for Secondary Teachers) P: C or better in MATH 2401 or MATH 1306	3
Approved Oral Communication course (p. 60) P: Refer to catalog	3	*SED 3312 (Organizing and Managing the Class Environment in the Secondary School) P: Refer to catalog	3
Approved American History course (p. 60) P: Enrollment in or completion of ENG 1301 or 010 core complete	3	*PED 3305 (Understanding the Early Child through 12th grade) P: Refer to catalog	3
Approved Language, Philosophy, and Culture course (p. 60) P: Refer to catalog	3	*PED 4380 (Field Experience in Urban Public School Classrooms) P: Refer to catalog	3
Free Elective (if needed)	1	Free Elective (if needed)	3
Total Semester Hours	16	Total Semester Hours	18

YEAR 4

Semester 7		Semester 8	
Course Number	Credit Hours	Course Number	Credit Hours
*SED 3317 (Teaching Secondary School Mathematics) P: Refer to catalog	3	*SED 4301 (Student Teaching in the Secondary School) P: Refer to catalog	3
*SED 3307 (Second. Teacher Roles in Assessment and Profession) P: Refer to catalog	3	*SED 4302 (Student Teaching in the Secondary School) P: Refer to catalog	3
*PED 4382 (Field Experience in Urban Education Classrooms) <i>A math ed. faculty advisor and topic must be decided upon/approved by the dept. chair at least one full semester before registering</i> P: Refer to catalog	3	*READ 4321 (Literacy Across the Curriculum 8-12) P: Refer to catalog	3
ASTA Elective course See catalog for details	3		
Free Elective (if needed)	3		
Total Semester Hours	15	Total Semester Hours	9

Total Credit Hours Required 120

* Critical course required to stay on track within major and take subsequent courses

Students are expected to place into ENG 1301 and MATH 2401 via CLEP or Bypass exams – placement tests determine which english or math course students should start with and additional courses may be necessary

& Satisfies both common core and major requirement/prerequisite